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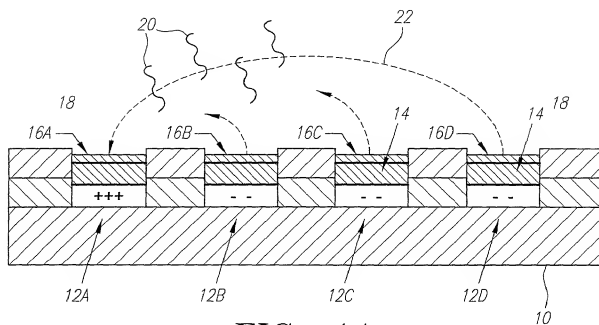


FIG. 1A

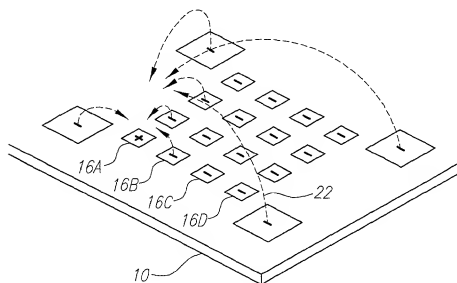


FIG. 1B

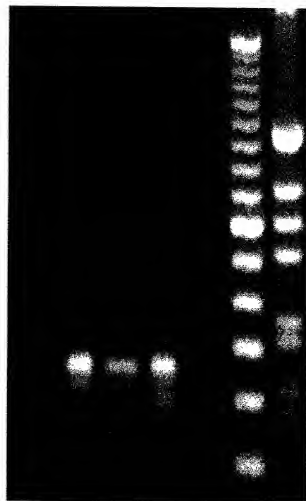
ICLIP



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FIGURE 2B

Control
E.coli 0157:H7
Shigella
Salmonella
M1 M2



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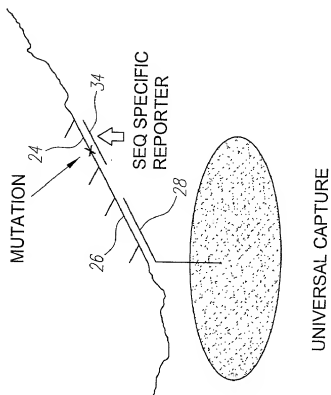


FIG. 2C

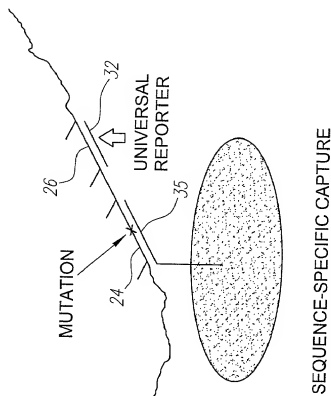


FIG. 2D

T06007' 5294/660

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FIGURE 3A

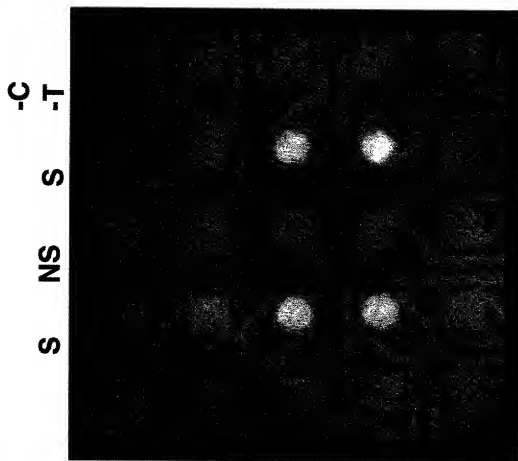
Campylobacter

Shigella

Salmonella

Salmonella

+C, -T



1066007 58942650

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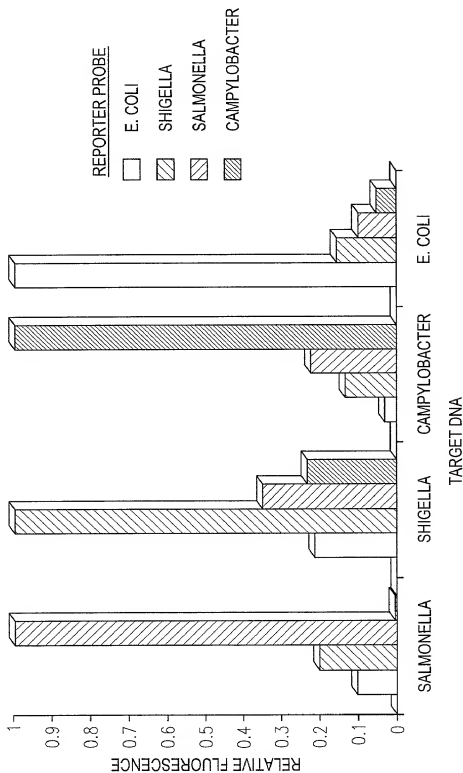


FIG. 3B

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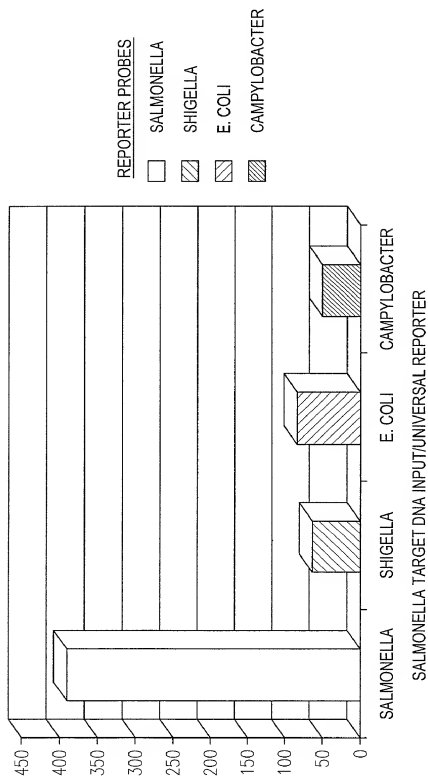
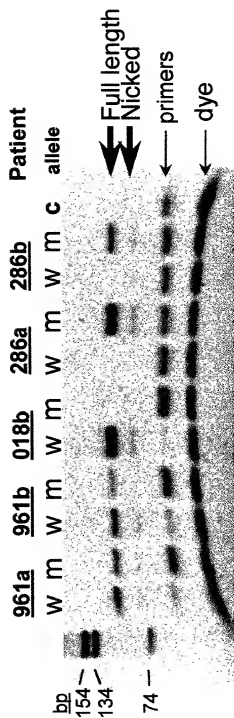


FIG. 3C

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FIGURE 4A



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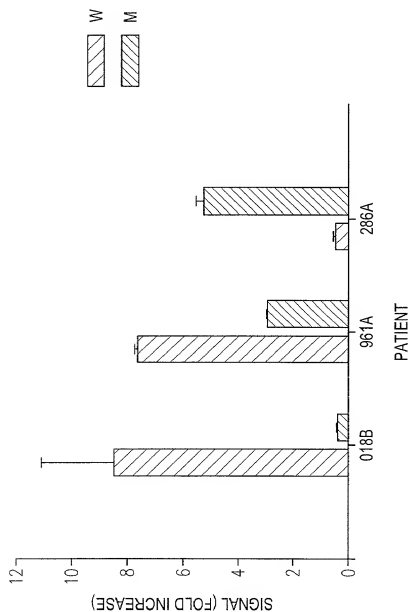


FIG. 4B

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FIG. 5A

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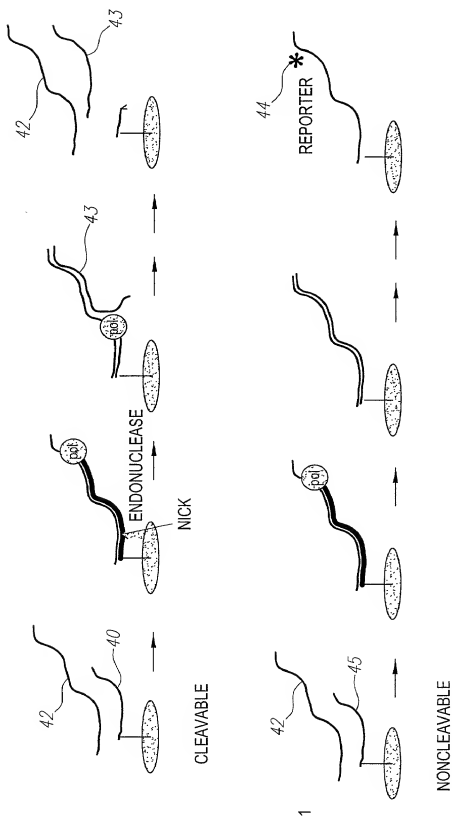
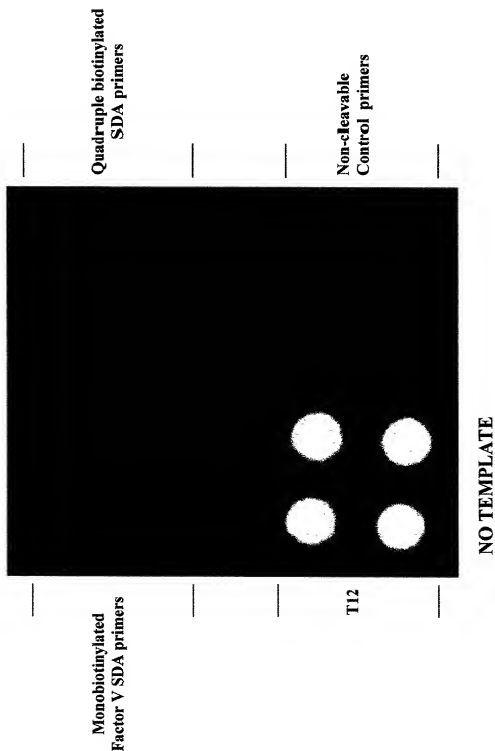


FIG. 5B

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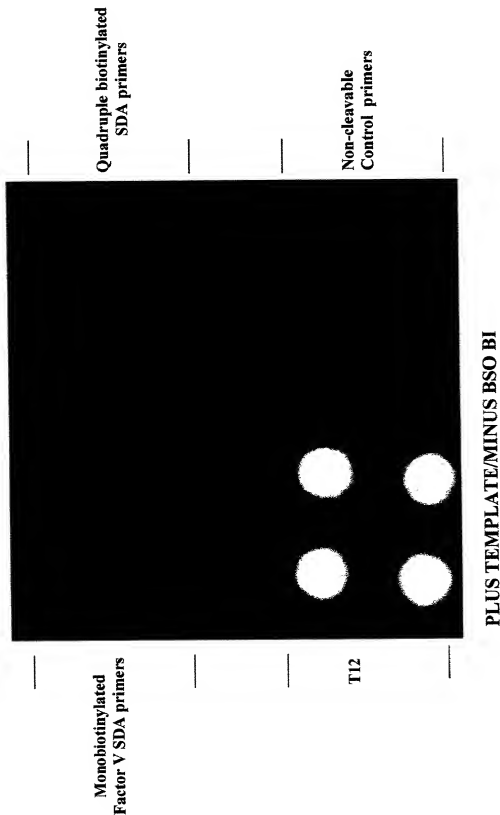
066007-58942660

FIGURE 6A



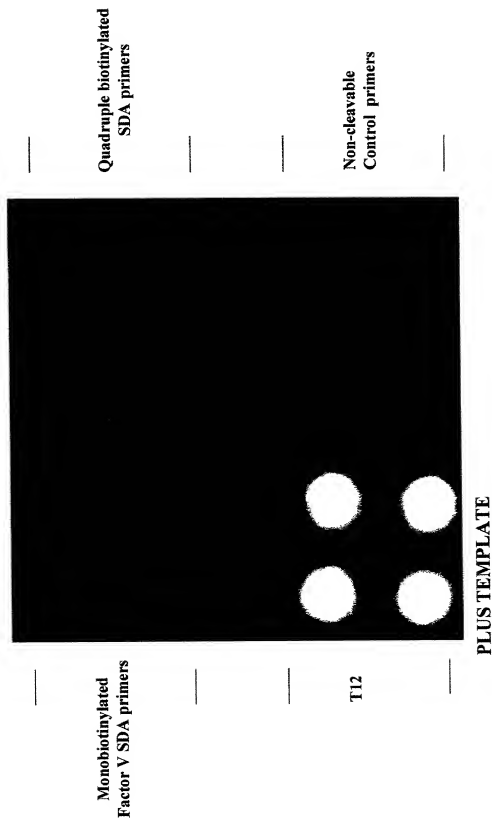
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FIGURE 6B

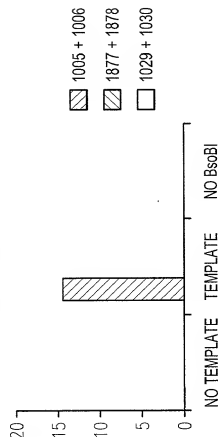


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FIGURE 6C



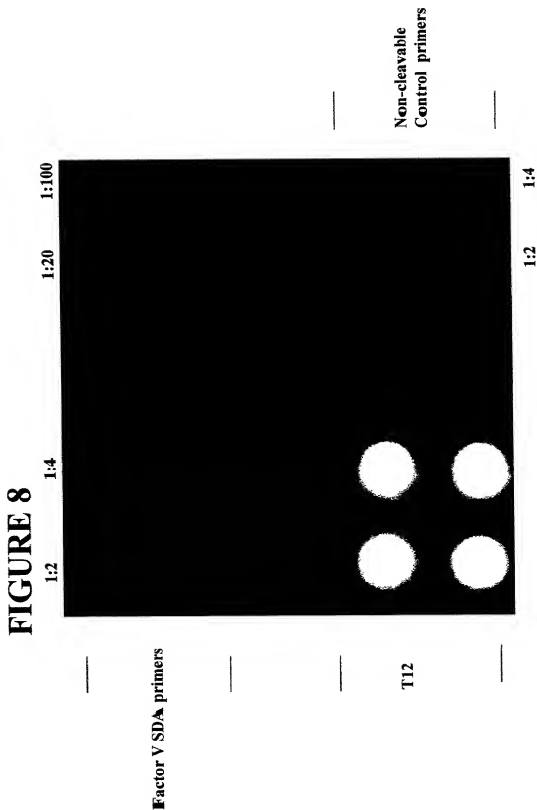
HUMAN COAGULATION FACTOR V ANCHORED SDA IN SITU
ON MICROCHIPS



1005 + 1006 = MONOBIONTYLATED PROBES
1877 + 1878 = QUADRUPL-BIOTINYLATED PROBES
1029 + 1030 = NON-CLEAVABLE CONTROL PRIMERS

FIG. 7

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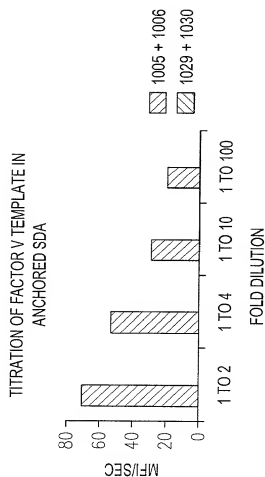


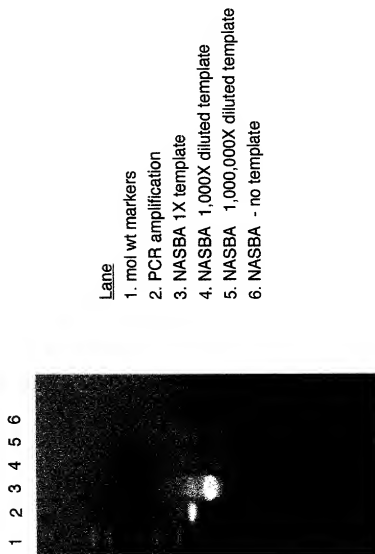
FIG. 9

1005 + 1006 = FACTOR V SDA PRIMERS
1029 + 1030 = NON-CLEAVABLE CONTROL PRIMERS

106001-5894260

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FIGURE 10A



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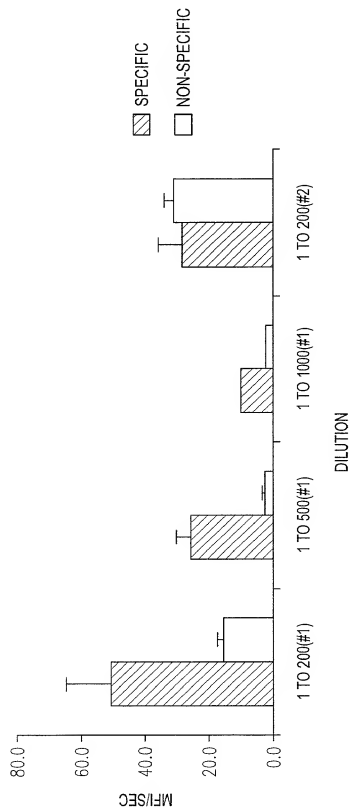


FIG. 10B

106001-58942660

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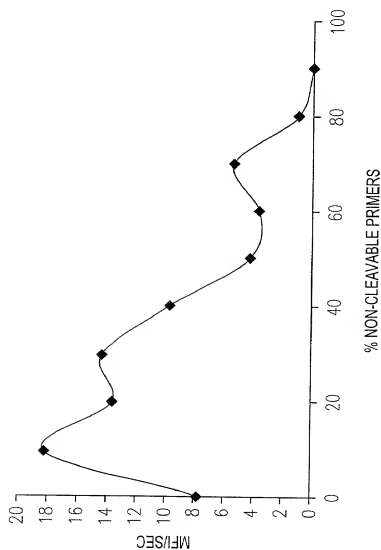


FIG. 11

106001*58942660

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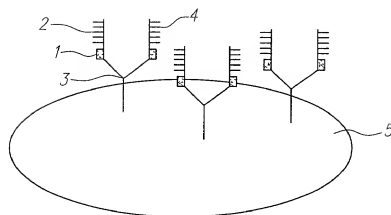


FIG. 12

09971685.100901



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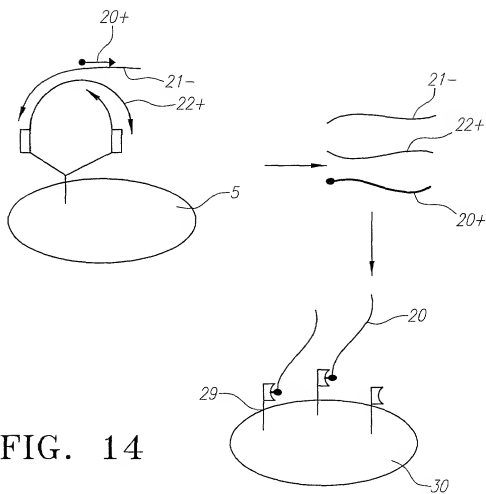


FIG. 14

09974665.100901

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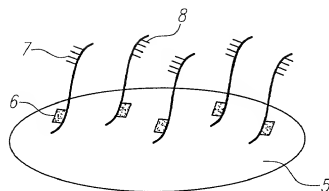


FIG. 15

09974685.100901

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FIGURE 16

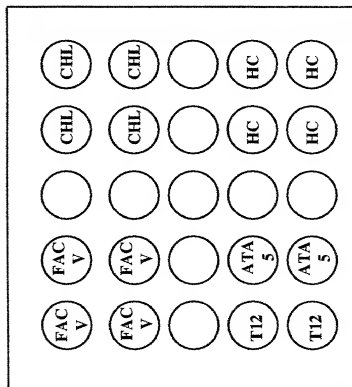
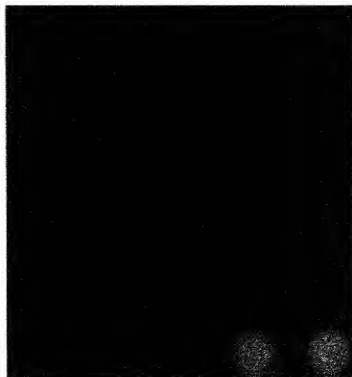


FIGURE 17

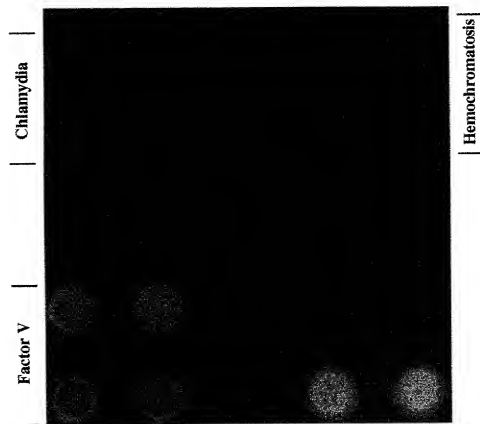


**Control - No template +
all reporter oligos**

Experimental Layout

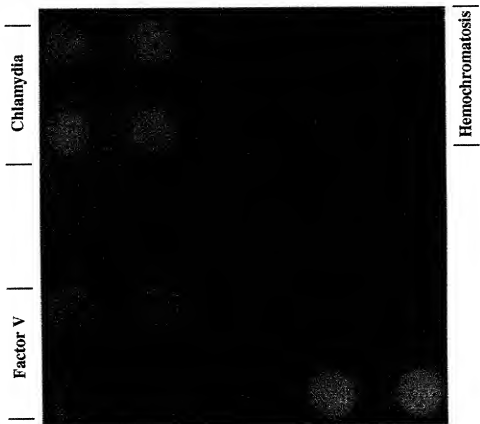
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FIGURE 18



All templates + Factor V Reporter oligo

FIGURE 19

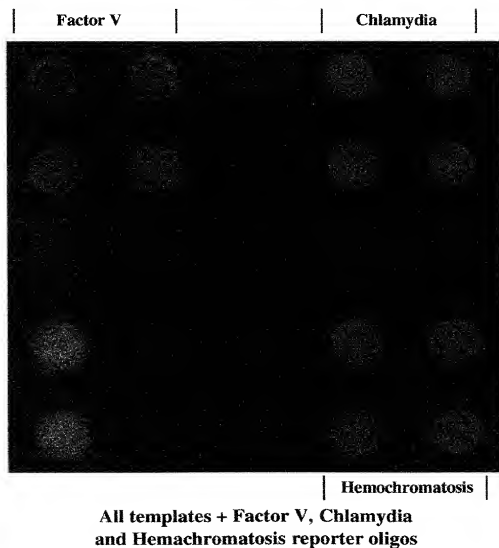


All templates + Factor V, Chlamydia
Reporter Oligos

106007-58947660

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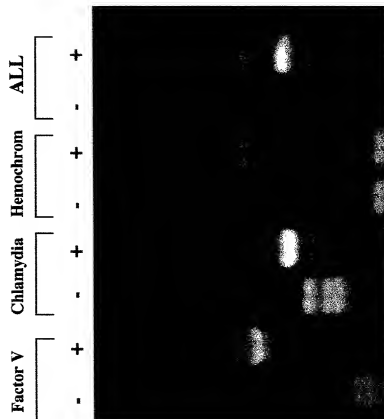
FIGURE 20



00974685-100901
T0600Y-58942660

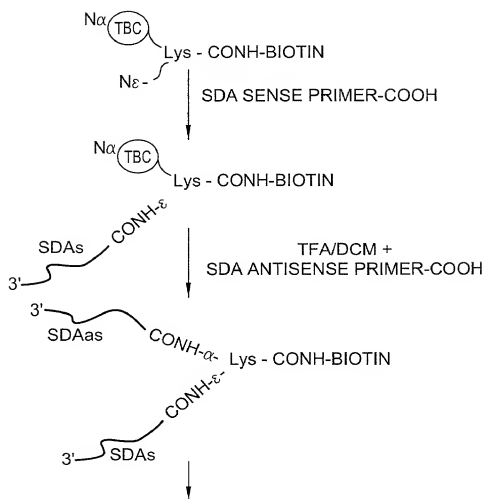
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FIGURE 21



Control Solution SDA reactions

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ATTACH TO STREPTAVIDIN PERMEATION LAYER ON MICROCHIP

FIG. 22

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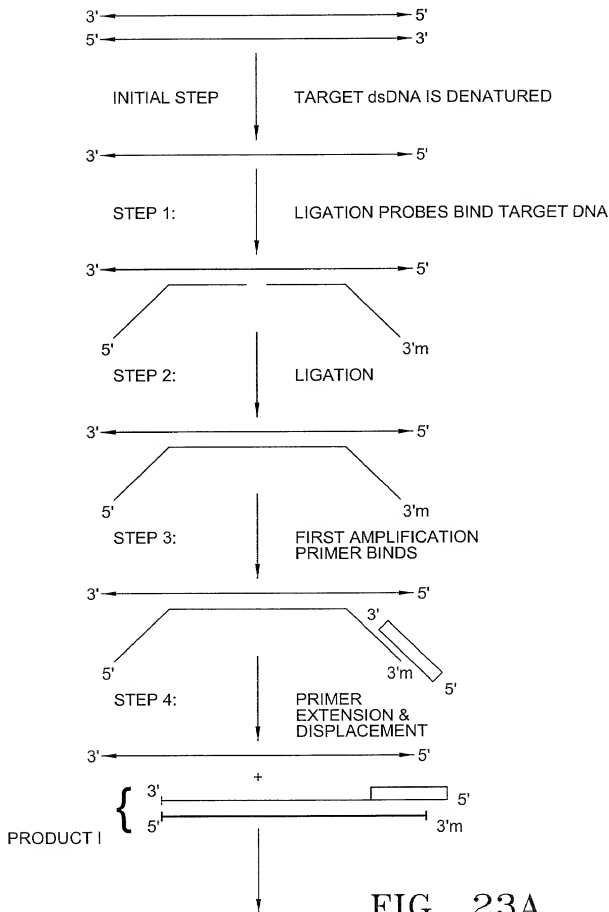


FIG. 23A

05974635-100901

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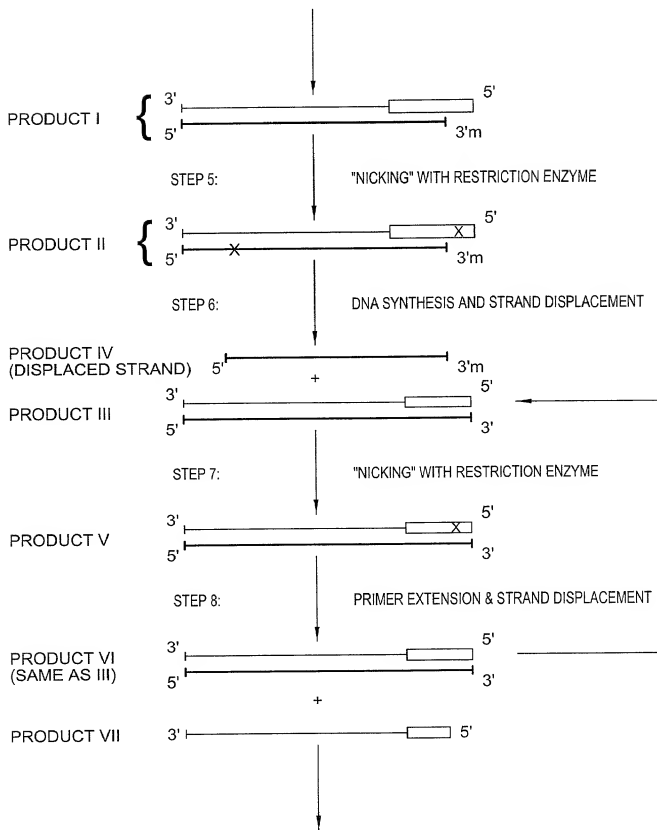
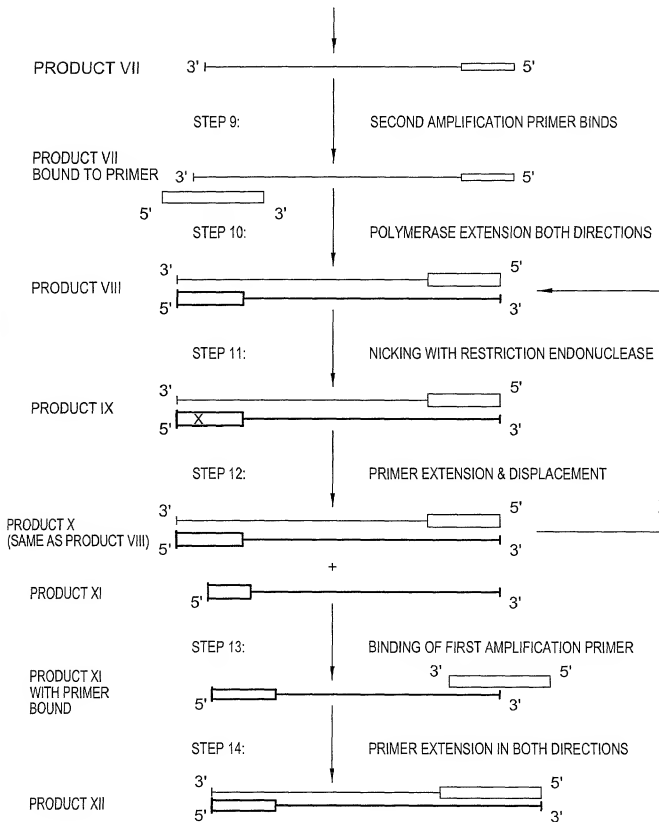


FIG. 23B

09974685.100901

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(PRODUCT XII CAN RE-ENTER PATHWAY AND BE FURTHER AMPLIFIED IN A MANNER
 SIMILAR TO PRODUCT III, FOLLOWING STEP 6)

FIG. 23C

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LIGATION-DEPENDENT DETECTION OF THE SALMONELLA spaQ GENE

LIGATION PROBES LP1 AND LP2:

spaQ¹ TEMPLATE 5'-nnnnncaacatgacatcatcagagacgggtagttaataatgatgatttagtgmnnn-3'
 |||||
 LP1² 3'-aattccgcagcgtcggtaatgttgactgtagttaatgctctgc³-5'
 |||||
 3'-cctatcaatttaactactaaatcacgattatccccctagagtcacgtgggctc LP2³
 |||||
 ttcagacctgccttagc-5'

AMPLIFICATION PRIMER SEQUENCES S1 AND S2:

LP1 3'-⁴aattccgcagcgtcggttaattgttgactgtagttaatgctctgc⁴-5'
 |||||
 S1⁴ 5'-accgcacgaatgcacgtgtctcgggtgaaggcgctactcgacc
 |||||
 LP2 3'-cctatcaatttaactactaaatcacgattatccccctagagtcacgtgggctc ttcagacctgccttagc-5'
 ||-----S2⁵-----||

FIG. 23D

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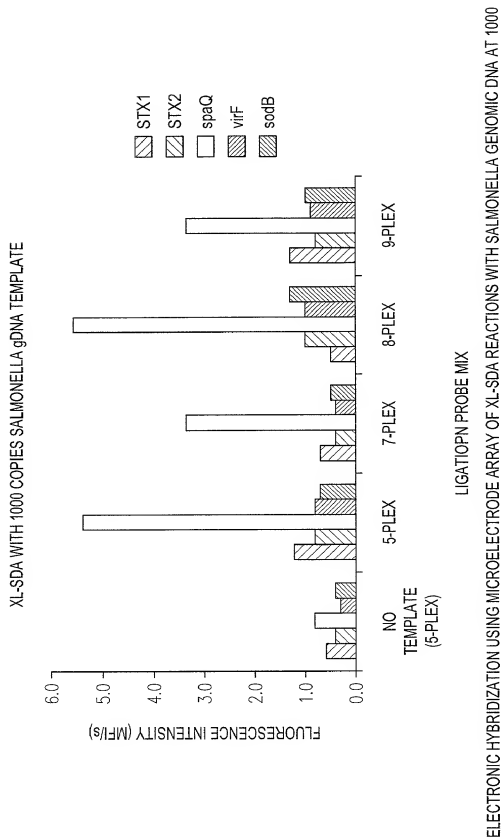


FIG. 24